

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A process for manufacturing a solar cell foil ~~comprising the steps of~~ the method comprising:

providing an etchable temporary substrate;

applying a front electrode of a transparent conductive oxide (TCO) onto the temporary substrate;

applying a photovoltaic layer onto the ~~TCO layer~~ TCO;

applying a ~~back electrode layer~~ back electrode;

applying a permanent carrier; and

ensuring that the front electrode and the back electrode are electrically connected in an interconnect to establish a series connection, the front and the back electrode each being interrupted by a front groove and a back groove, respectively, at different sides of the interconnect,

wherein in any one of the preceding ~~steps~~ steps,

applying an etch resist is provided located on a second side of the temporary substrate opposite to a first side of the temporary substrate ~~at least at the location of covering the interconnect, and at least not at the entire location of the front groove, and~~

followed by selectively removing portions of the temporary substrate where it is not covered with the etch resist, to obtain ~~a solar cell foil~~ the solar cell foil provided with a protective cap on the TCO ~~at the location of the interconnect~~.

2. (Currently Amended) The process of claim 1, wherein ~~the step of~~ applying applying of the etch resist on the ~~non-TCO~~ second side of the temporary substrate is

performed directly before the ~~step of~~ selectively removing portions of the temporary substrate ~~where it is not covered with etch resist.~~

3. (Previously Presented) The process of claim 1, wherein the etch resist is a permanent etch resist.

4. (Currently Amended) The process of claim 3, wherein ~~the color~~ a color of the etch resist is selected such that the color of the etch resist matches or contrasts with ~~the color~~ a color of ~~the energy-generating~~ an energy-generating part of the solar cell unit.

5. (Withdrawn) The process of claim 1, wherein the etch resist is a temporary etch resist.

6. (Currently Amended) The process of ~~claim 1~~ claim 1, which is carried out in a roll-to-roll process.

7. (Withdrawn-Currently Amended) A solar cell unit comprising a front electrode, a PV layer, and a back electrode layer, wherein the solar cell unit is divided into at least two individual cells connected in series, the series connection comprising an interconnect ~~which~~ that electrically connects ~~the front~~ a front electrode of one cell with ~~the back~~ a back electrode of an adjacent cell, while the front and the back electrode are each interrupted at different sides of the interconnect, in which the solar cell unit has a protective cap that is present on the front electrode ~~at the location of~~ covering the interconnect, with the protective cap being of a different material than the interconnect.

8. (Withdrawn-Currently Amended) The solar cell unit of ~~claim 7~~ claim 7, which is a flexible solar cell foil suitable for handling in a roll-to roll process.

9. (Previously Presented) The process of claim 2, wherein the etch resist is a permanent etch resist.

10. (Withdrawn) The process of claim 2, wherein the etch resist is a temporary etch resist.

11. (Currently Amended) The process of ~~claim 2~~claim 2, which is carried out in a roll-to-roll process.

12. (Currently Amended) The process of ~~claim 3~~claim 3, which is carried out in a roll-to-roll process.

13. (Currently Amended) The process of ~~claim 4~~claim 4, which is carried out in a roll-to-roll process.

14. (Withdrawn-Currently Amended) The process of ~~claim 5~~claim 5, which is carried out in a roll-to-roll ~~process.~~process.